

Vector Backbone: pRS424

Vendor: ATCC
 Backbone Size (bp): 5616
 Catalog Number: 77105
 GenBank Accession Number: [U03453](#)
 Sequence and Map: [Sequence \(Click to see features and cutters\)](#)

Comments: The order of the major features in this plasmid is: ori(f1) - lacZ - T7 promoter - MCS (KpnI-SacI) - T3 promoter - lacI - ori(pMB1) - ampR - ori (2 micron) - TRP1. Contains the REP3 and FRT sequences necessary for high copy propagation in yeast. In *S. cerevisiae*, the number is about 20 per haploid cell. In non-selective growth, plasmids are lost through mitotic segregation at rates in the range of 1.5 + or - 1.7% of progeny per doubling. YE-type shuttle vector encoding the beta-galactosidase alpha peptide, permitting blue-white visual detection. Can be used to produce ssDNA. Contains promoters for in vitro RNA synthesis and priming sites useful for sequencing. Restriction digests of the clone give the following sizes (kb): BamHI--5.6; EcoRI--5.6; PvuII--5.2, 0.5; XbaI--3.3, 1.4, 1.0. (ATCC staff) Medium is 1227 LB plus ampicillin. NCBI gi: 416324 Hosts: *E.coli* DH5alpha, *Saccharomyces cerevisiae*, *E.coli*. Related vectors: pRS423, pRS425, pRS426. (Information source: [VectorDB](#).)

Click on map to enlarge

